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**1** [A composable framework for secure multi-modal access to internet services from Post-PC devices](#) 

Steven J. Ross, Jason L. Hill, Michael Y. Chen, Anthony D. Joseph, David E. Culler, Eric A. Brewer

October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5

Full text available:  [pdf\(340.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

The Post-PC revolution is bringing information access to a wide range of devices beyond the desktop, such as public kiosks, and mobile devices like cellular telephones, PDAs, and voice based vehicle telematics. However, existing deployed Internet services are geared toward the secure rich interface of private desktop computers. We propose the use of an infrastructure-based secure proxy architecture to bridge the gap between the capabilities of Post-PC devices and the requirements of Internet ser ...

**Keywords:** internet, middleware, post-PC, security, transcoding

**2** [Lightweight object-oriented shared variables for distributed applications on the Internet](#) 

Jacob Harris, Vivek Sarkar

October 1998 **ACM SIGPLAN Notices , Proceedings of the 13th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**, Volume 33 Issue 10

Full text available:  [pdf\(1.78 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a lightweight yet powerful approach for writing distributed applications using shared variables. Our approach, called SHAREHOLDER, is inspired by the flexible and intuitive model of information access common to the World Wide Web. The distributed applications targeted by our approach all share a weak consistency model and loose transaction semantics, similar to a user's model of accessing email, bulletin boards, chat rooms, etc. on the Internet. The SHA ...

**Keywords:** distributed and parallel systems, language design and implementation, persistence, world wide web

**3**

[Client-server computing in mobile environments](#) 

Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid  
June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2

Full text available:  pdf(233.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

**Keywords:** application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile computing, mobile data, mobility awareness, survey, system application

4 Systems: A Java web application for allowing multiuser collaboration and exploration of existing VRML worlds 

Clifton G. M. Presser

March 2005 **Proceedings of the tenth international conference on 3D Web technology**

Full text available:  pdf(383.32 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This work describes a new Java web application that enables users to explore and annotate VRML worlds collaboratively. The web application consists of a Java servlet, Java Server Pages (JSP) and supporting classes. There are two significant features of this work. First, users can explore existing standard VRML worlds collaboratively with automatic multiuser augmentation. Second, the user is free from the inconsistencies of interacting web browsers, a VRML browsers and a Java virtual machines. Th ...

**Keywords:** Collaboration, ECMAScript, JSP, Java, Servlet, VRML

5 On secure and pseudonymous client-relationships with multiple servers 

Eran Gabber, Phillip B. Gibbons, David M. Kristol, Yossi Matias, Alain Mayer

November 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2 Issue 4

Full text available:  pdf(161.56 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper introduces a cryptographic engine, Janus, which assists clients in establishing and maintaining secure and pseudonymous relationships with multiple servers. The setting is such that clients reside on a particular subnet (e.g., corporate intranet, ISP) and the servers reside anywhere on the Internet. The Janus engine allows each client-server relationship to use either weak or strong authentication on each interaction. At the same time, each interaction preserves privacy by neither ...

**Keywords:** Janus function, anonymity, mailbox, persistent relationship, privacy, pseudonym

6 Client-site query extensions 

Tobias Mayr, Praveen Seshadri

June 1999 **ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data**, Volume 28 Issue 2

Full text available:  pdf(1.37 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We explore the execution of queries with client-site user-defined functions (UDFs). Many UDFs can only be executed at the client site, for reasons of scalability, security, confidentiality, or availability of resources. How should a query with client-site UDFs be executed? We demonstrate that the standard execution technique for server-site UDFs performs poorly. Instead, we adapt well-known distributed database algorithms and apply them to client-site UDFs. The resulting query execution tec ...

**Keywords:** client-site extensions, distributed query-processing, user-defined functions

7 [Fast detection of communication patterns in distributed executions](#) 

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  pdf(4.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ....

8 [Web site analysis and customization: Web customization using behavior-based remote executing agents](#) 

Eugene Hung, Joseph Pasquale

May 2004 **Proceedings of the 13th international conference on World Wide Web**

Full text available:  pdf(128.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

ReAgents are remotely executing agents that customize Web browsing for non-standard clients. A reAgent is essentially a "one-shot" mobile agent that acts as an extension of a client dynamically launched by the client to run on its behalf at a remote more advantageous location. ReAgents simplify the use of mobile agent technology by transparently handling data migration and run-time network communications and provide a general interface for programmers to more easily implement their application-sp ...

**Keywords:** dynamic deployment, remote agents, web customization

9 [ISIS: an adaptive, trilingual conversational system with interleaving interaction and delegation dialogs](#) 

Helen Meng, P. C. Ching, Shuk Fong Chan, Yee Fong Wong, Cheong Chat Chan

September 2004 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 11

Issue 3

Full text available:  pdf(3.71 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

ISIS (Intelligent Speech for Information Systems) is a trilingual spoken dialog system (SDS) for the stocks domain. It handles two dialects of Chinese (Cantonese and Putonghua) as well as English---the predominant languages in our region. The system supports spoken language queries regarding stock market information and simulated personal portfolios. The conversational interface is augmented with a screen display that can capture mouse-clicks as well as textual input by typing or stylus-writing. ...

**Keywords:** Human-computer spoken language interface, interaction and delegation dialogs

**DOS protection: Using graphic turing tests to counter automated DDoS attacks against web servers**

William G. Morein, Angelos Stavrou, Debra L. Cook, Angelos D. Keromytis, Vishal Misra, Dan Rubenstein

October 2003 **Proceedings of the 10th ACM conference on Computer and communications security**

Full text available:  [pdf\(266.63 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present WebSOS, a novel overlay-based architecture that provides guaranteed access to a web server that is targeted by a denial of service (DoS) attack. Our approach exploits two key characteristics of the web environment: its design around a human-centric interface, and the extensibility inherent in many browsers through downloadable "applets." We guarantee access to a web server for a large number of *previously unknown* users, without requiring pre-existing trust relationships between ...

**Keywords:** Java, graphic turing tests, web proxies

**11 Generating dynamic content at database-backed web servers: cgi-bin vs. mod\_perl**

Alexandros Labrinidis, Nick Roussopoulos

March 2000 **ACM SIGMOD Record**, Volume 29 Issue 1

Full text available:  [pdf\(508.64 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Web servers are increasingly being used to deliver dynamic content rather than static HTML pages. In order to generate web pages dynamically, servers need to execute a script, which typically connects to a DBMS. Although CGI was the first approach at server side scripting, it has significant performance shortcomings. Currently, there are many alternative server side scripting architectures which offer better performance than CGI. In this paper, we report our experiences using mod\_perl ...

**12 iMobile EE: an enterprise mobile service platform**

Yih-Farn Chen, Huale Huang, Rittwik Jana, Trevor Jim, Matti Hiltunen, Sam John, Serban Jora, Radhakrishnan Muthumanickam, Bin Wei

July 2003 **Wireless Networks**, Volume 9 Issue 4

Full text available:  [pdf\(2.90 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

iMobile<sup>1</sup> is an enterprise mobile service platform that allows resource-limited mobile devices to communicate with each other and to securely access corporate contents and services. The original iMobile architecture consists of devlets that provide protocol interfaces to different mobile devices and infolets that access and transcode information based on device profiles. iMobile Enterprise Edition (iMobile EE) is a redesign of the original iMobile architecture to address the security, ...

**Keywords:** content transcoding, middleware, mobile devices, mobile enterprise, mobile multimedia services

**13 Technical papers: software design: DADO: enhancing middleware to support**

**crosscutting features in distributed, heterogeneous systems**

Eric Wohlstadter, Stoney Jackson, Premkumar Devanbu

May 2003 **Proceedings of the 25th International Conference on Software Engineering**

Full text available:   [pdf\(1.56 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)  
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Some "non-" or "extra-functional" features, such as reliability, security, and tracing, defy

modularization mechanisms in programming languages. This makes such features hard to design, implement, and maintain. Implementing such features within a single platform, using a single language, is hard enough. With distributed, heterogeneous (DH) systems, these features induce complex implementations which cross-cut different languages, OSs, and hardware platforms, while still needing to share data and ...

**14 Comparing industry benchmarks for J2EE application server: IBM's trade2 vs Sun's ECperf**

Yan Zhang, Anna Liu, Wei Qu

February 2003 **Proceedings of the twenty-sixth Australasian computer science conference on Conference in research and practice in information technology - Volume 16**

Full text available:  pdf(363.74 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

As the Internet and enterprise wide distributed systems become more prevalent in business IT systems, numerous advanced COTS (commercial off-the-shelf) middleware technologies have appeared on the market. One such leading middleware technology type is Sun's Java 2 Enterprise Edition (J2EE) technology. At present, there is an abundance of J2EE application server implementations in the marketplace with almost no discerning differences. The different product vendors all claim to have implemented th ...

**Keywords:** COTS, benchmark, component-based system, empirical results, middleware

**15 Saving the world from bad beans: deployment-time confinement checking**

Dave Clarke, Michael Richmond, James Noble

October 2003 **ACM SIGPLAN Notices , Proceedings of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**, Volume 38 Issue 11

Full text available:  pdf(380.32 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Enterprise JavaBeans (EJB) framework requires developers to preserve architectural integrity constraints when writing EJB components. Breaking these constraints allows components to violate the transaction protocol, bypass security mechanisms, disable object persistence, and be susceptible to malicious attacks from other EJBs. We present an object confinement discipline that allows static verification of components' integrity as they are deployed into an EJB server. The confinement rules are ...

**Keywords:** confinement, deployment tools, enterprise JavaBeans

**16 Web engineering: A visual environment for dynamic web application composition**

Kimihito Ito, Yuzuru Tanaka

August 2003 **Proceedings of the fourteenth ACM conference on Hypertext and hypermedia**

Full text available:  pdf(1.56 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

HTML-based interface technologies enable end-users to easily use various remote Web applications. However, it is difficult for end-users to compose new integrated tools of both existing Web applications and legacy local applications such as spreadsheets, chart tools and database. In this paper, the authors propose a new framework where end-users can wrap remote Web applications into visual components called *pads*, and functionally combine them together through drag & drop-paste operations. ...

**Keywords:** hypermedia, intelligentPad, personalization, web application linkage, web application wrapping

**17** Help design challenges in network computing

Ben Gelernter

September 1998 **Proceedings of the 16th annual international conference on Computer documentation**

Full text available:  [pdf\(1.12 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** documentation, help, information architecture, network computing, network computing architecture, online help, thin clients, user assistance

**18** Mostly concurrent garbage collection revisited

Katherine Barabash, Yoav Ossia, Erez Petrank

October 2003 **ACM SIGPLAN Notices , Proceedings of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**, Volume 38 Issue 11

Full text available:  [pdf\(279.42 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The *mostly concurrent garbage collection* was presented in the seminal paper of Boehm et al. With the deployment of Java as a portable, secure and concurrent programming language, the mostly concurrent garbage collector turned out to be an excellent solution for Java's garbage collection task. The use of this collector is reported for several modern production Java Virtual Machines and it has been investigated further in academia. In this paper, we present a modification of the mostly concu ...

**Keywords:** JVM, Java, concurrent garbage collection, garbage collection, incremental garbage collection

**19** Web site engineering: A flexible framework for engineering "my" portals

Fernando Bellas, Daniel Fernández, Abel Muñoz

May 2004 **Proceedings of the 13th international conference on World Wide Web**

Full text available:  [pdf\(420.01 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

There exist many portal servers that support the construction of "My" portals that is portals that allow the user to have one or more personal pages composed of a number of personalizable services. The main drawback of current portal servers is their lack of generality and adaptability. This paper presents the design of MyPersonalizer a J2EE-based framework for engineering My portals. The framework is structured according to the Model-View-Controller and Layers architectural patterns providing g ...

**Keywords:** design patterns, j2ee, portal technology, web application frameworks and architectures, web engineering

**20** Network servers for symbolic mathematics

Richard J. Fateman

July 1997 **Proceedings of the 1997 international symposium on Symbolic and algebraic computation**

Full text available:  [pdf\(908.80 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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